

MOTOR ENDSHIELD ASSEMBLY FOR AN
ELECTRONICALLY COMMUTATED MOTOR

ABSTRACT OF THE DISCLOSURE

An endshield assembly for an electronically commutated motor includes an endshield, a control assembly, and a power assembly. The endshield includes a plurality of recessed fins on an outer surface, and a substantially flat raised portion on an internal surface. The raised portion is in contact with a thermal pad. The control assembly includes the thermal pad and a control board on which is located a plurality of power transistors. The thermal pad provides thermal contact between the transistors and the endshield to enable the endshield to dissipate heat from the transistors. The transistors include a plurality of leads that extend substantially parallel to the control board which enable the leads to be coated for protection against harsh external environments. The power assembly includes a power board having an insulator positioned between the power board and the control board.